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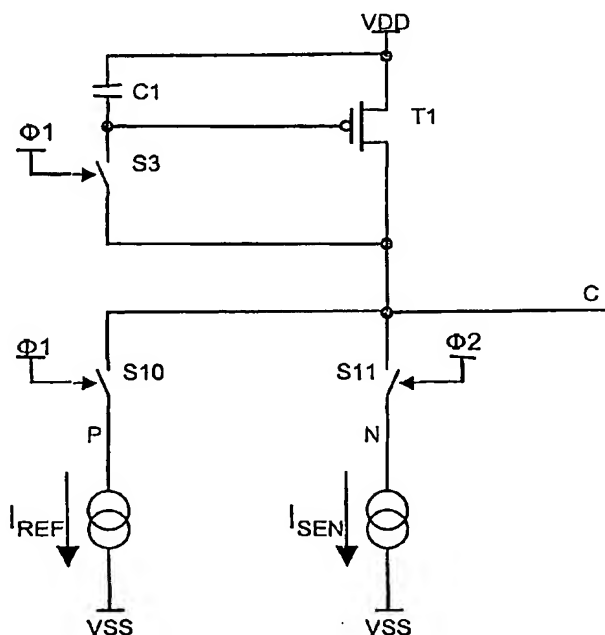
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(54) Title: DIFFERENTIAL CIRCUITS



(57) Abstract: A single transistor current-mirror is interfaced with a suitable load in combination with a suitable set of switches to accomplish a comparator function. In particular, the differential circuit comprises a single transistor current mirror, including a capacitor connected to the transistor by a switch, and two current sources connected to the current mirror by respective and independent switches, the switch of one of the current sources being operated together with the capacitor switch so as to charge the capacitor and the switch of the other current source being operated so that the circuit operates as a source-follower amplifier with a current-source load. The comparator function is, thus, not influenced by the spatial distribution of the characteristics of the transistors used to implement the circuit.

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